

PRODUCTION OF ANTISTATIC TRANSPARENT PLASTIC ARTICLE

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Abstract

PURPOSE: To obtain an antistatic transparent plastic article having a heightened total transmittance and a lowered haze value, by coating a transparent plastic article with a clear synthetic resin paint containing antimony-containing tin oxide powder and buffing the article.

CONSTITUTION: A transparent plastic article is coated with a clear synthetic resin paint containing electroconductive fine powder (particle diameter $\leq 0.2\mu$) comprising an antimony-containing tin oxide, and the surface of the article is finished by buffing. Examples of the bases for the article include rigid polyvinyl chloride, polystyrene, acrylic resin, and polycarbonate. The articles to which this method is applicable are moldings having shapes such as plate, sheet, and film. The content of the above electroconductive fine powder is preferably 45-80wt%. When it is lower than 45wt%, it is difficult to obtain a sufficient antistatic effect, while when it is higher than 80wt%, it is difficult to obtain good transparency because of poor dispersion of the electroconductive powder.

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